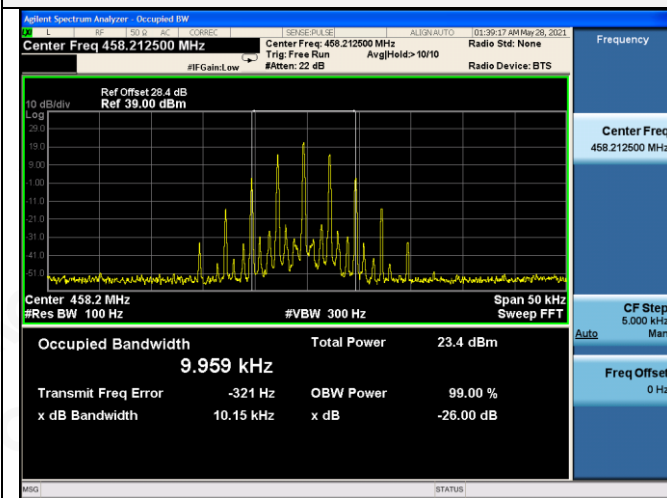
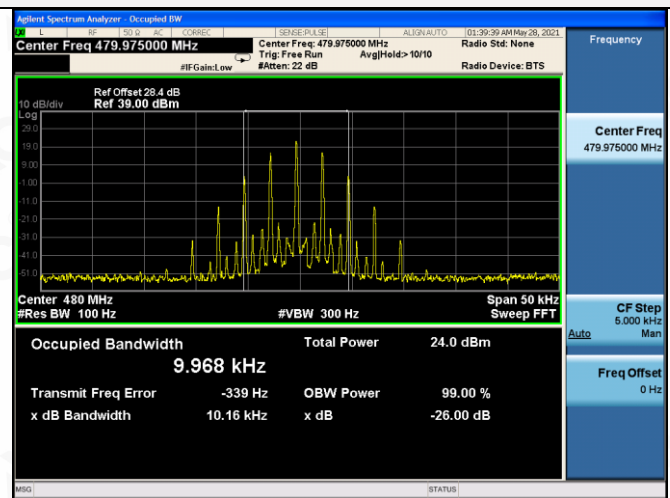


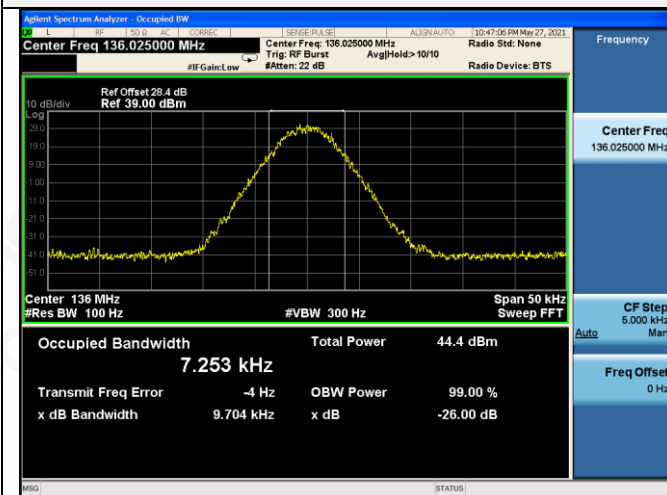
12.5kHz, FM Modulation:458.2125MHz-0.2W



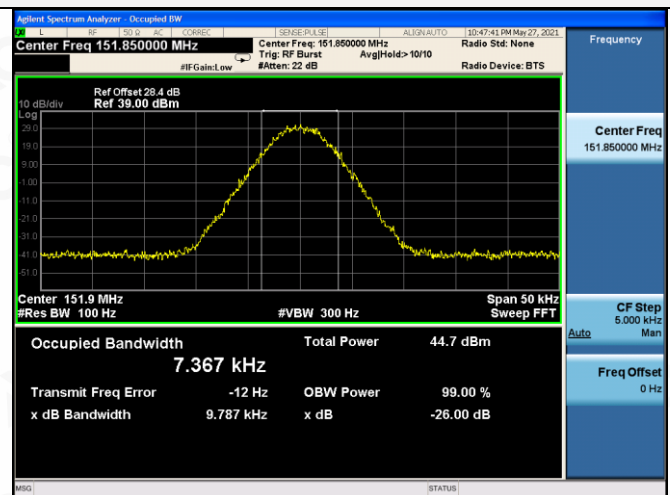
12.5kHz, FM Modulation:479.9750MHz-0.2W



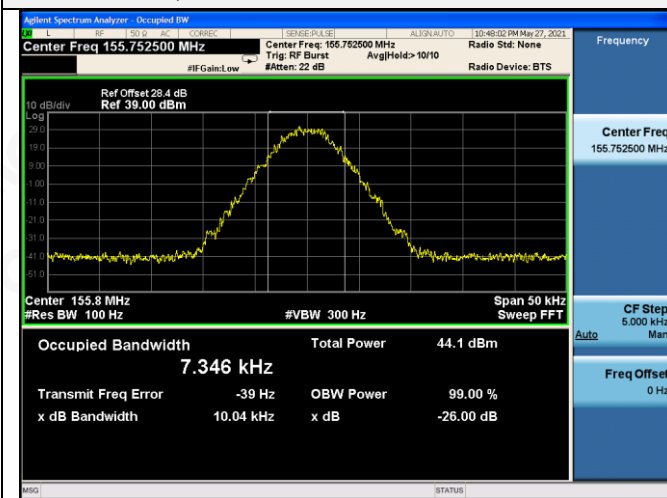
12.5kHz, 4FSK Modulation:136.025MHz-7W



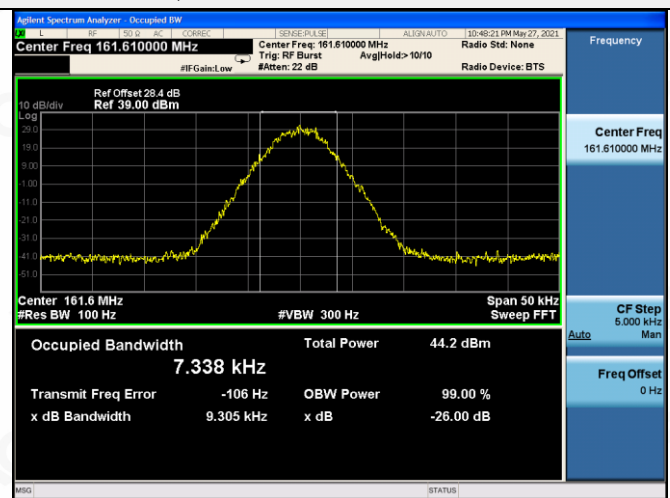
12.5kHz, 4FSK Modulation:151.850MHz-7W



12.5kHz, 4FSK Modulation:155.7525MHz-7W



12.5kHz, 4FSK Modulation:161.610MHz-7W

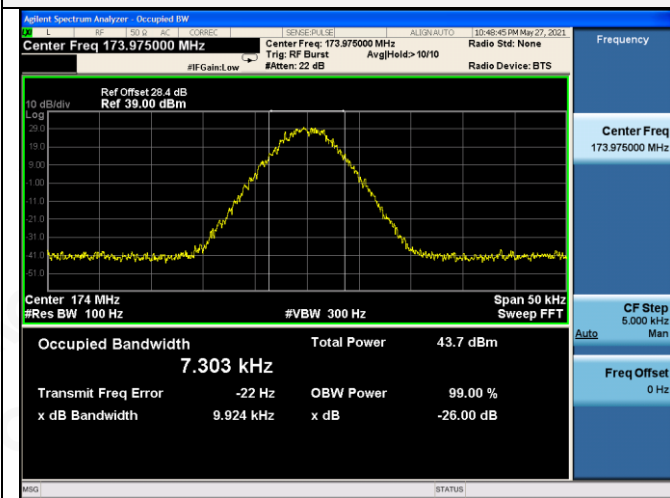


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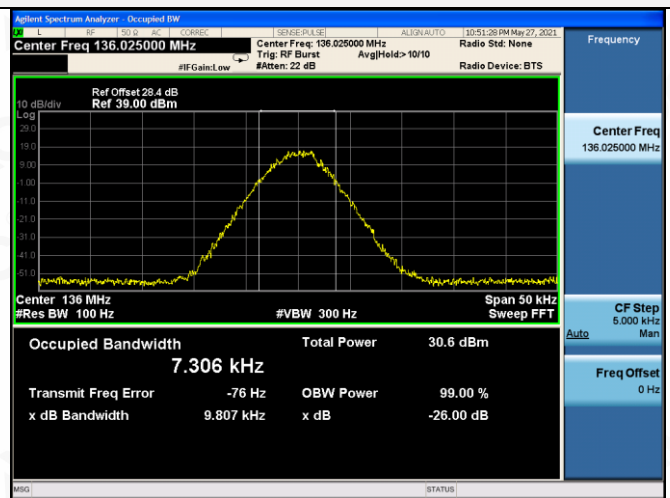
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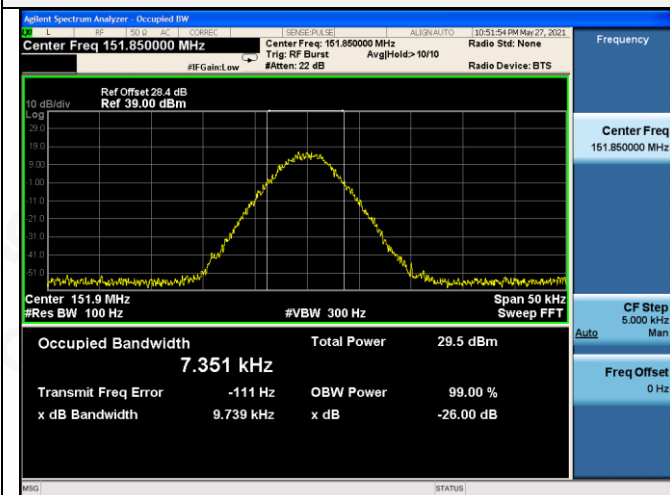
12.5kHz, 4FSK Modulation:173.975MHz-7W



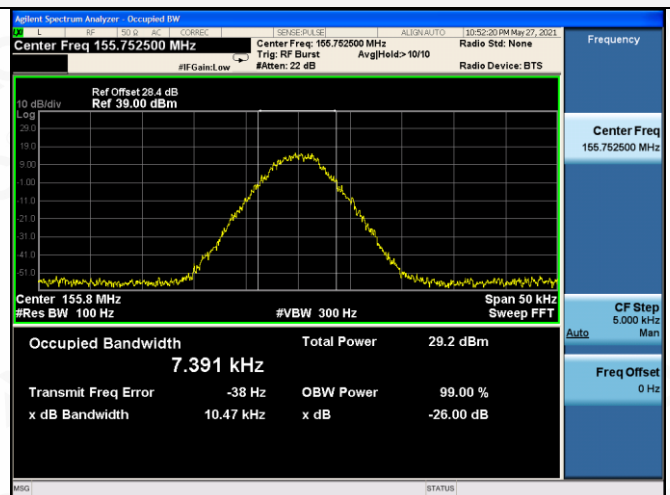
12.5kHz, 4FSK Modulation:136.250MHz-0.2W



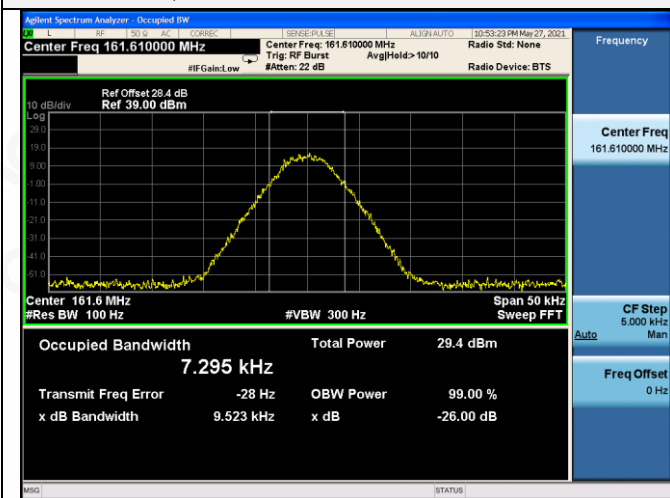
12.5kHz, 4FSK Modulation:151.850MHz-0.2W



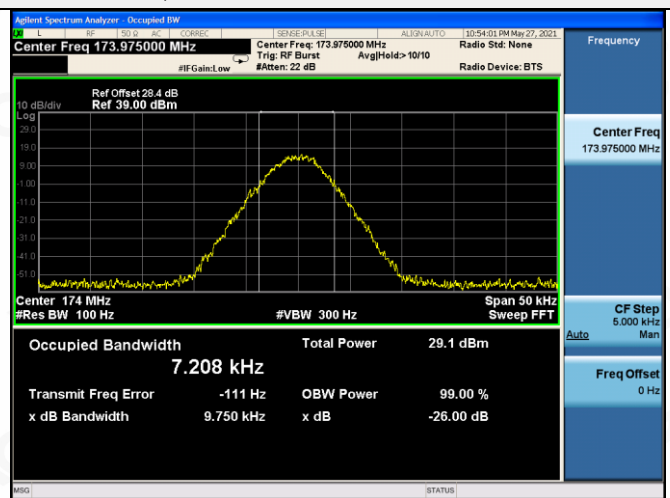
12.5kHz, 4FSK Modulation:155.7525MHz-0.2W



12.5kHz, 4FSK Modulation:161.610MHz-0.2W

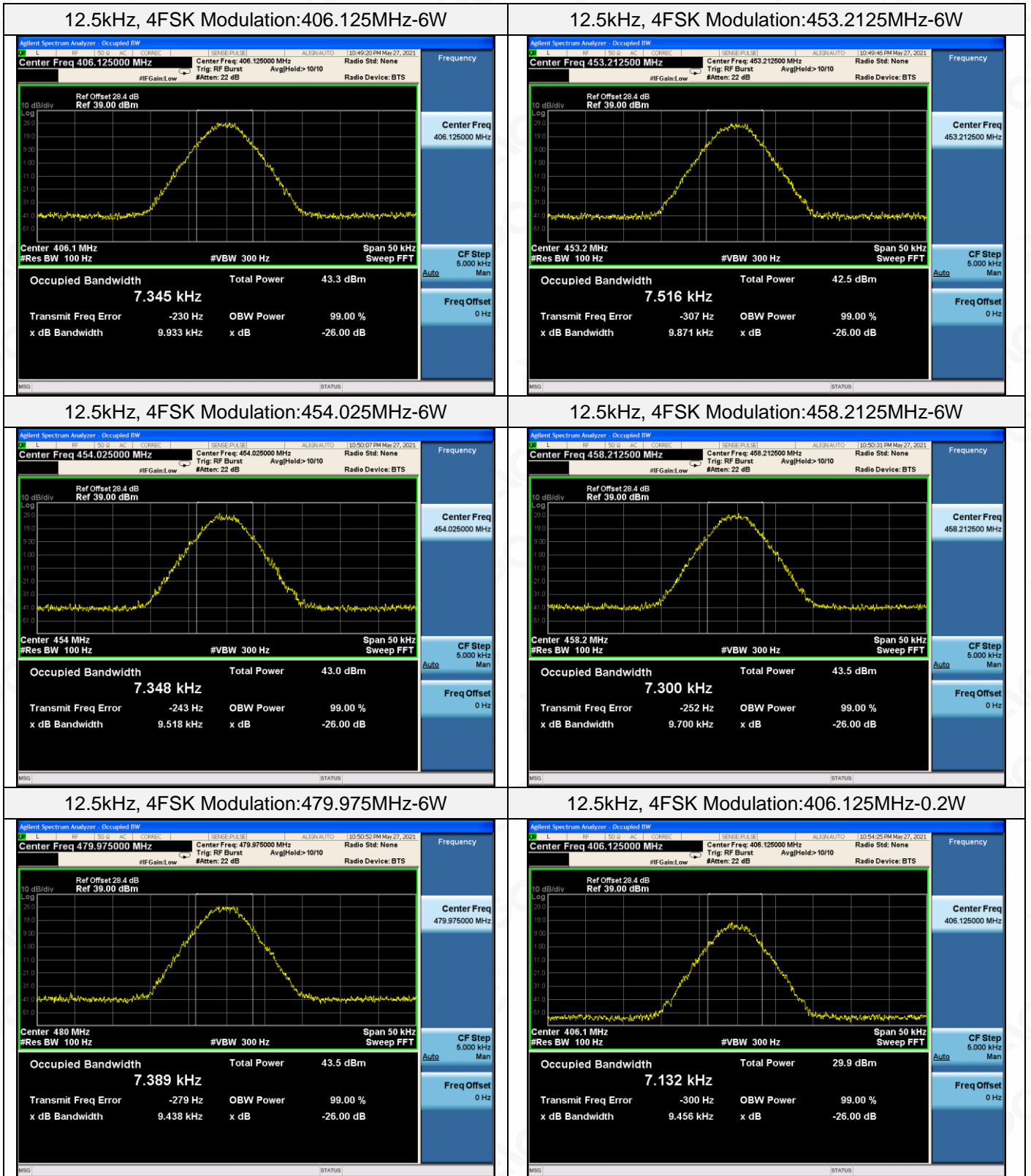


12.5kHz, 4FSK Modulation:173.975MHz-0.2W



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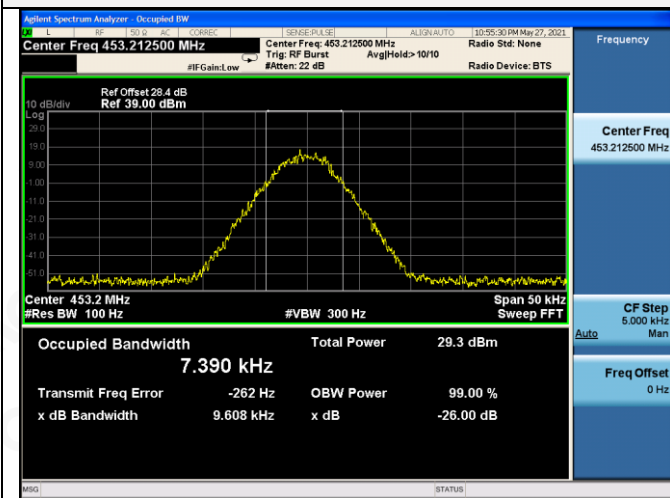


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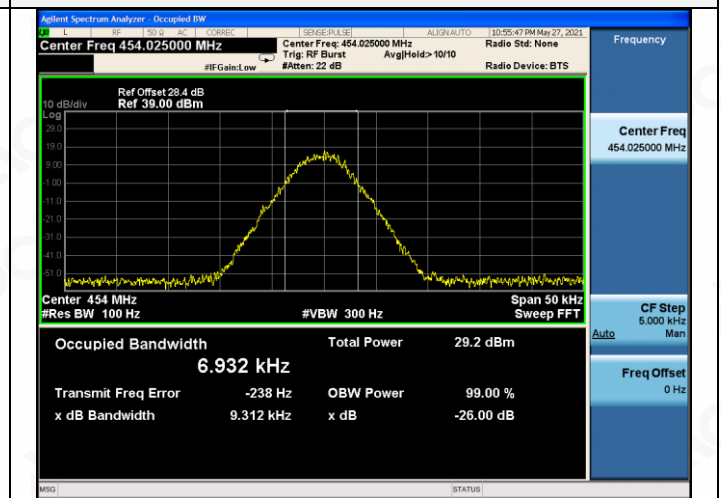
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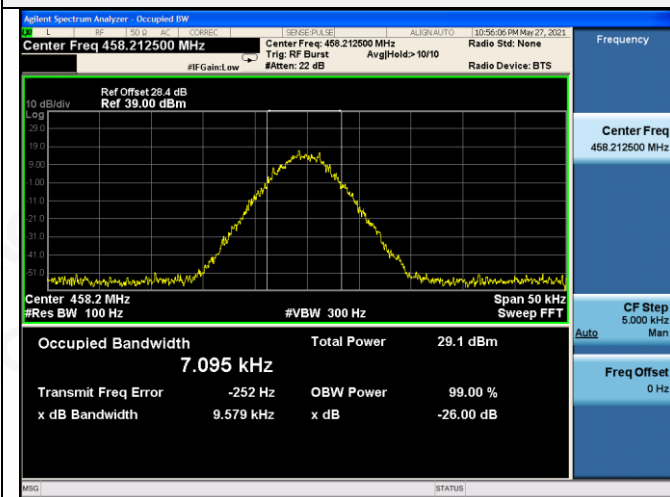
12.5kHz, 4FSK Modulation:453.2125MHz-0.2W



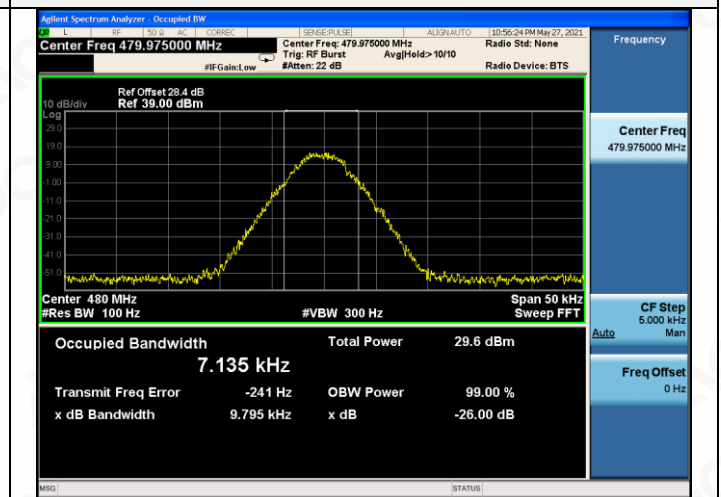
12.5kHz, 4FSK Modulation:454.025MHz-0.2W



12.5kHz, 4FSK Modulation:458.2125MHz-0.2W



12.5kHz, 4FSK Modulation:479.975MHz-0.2W



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8. SPURIOUS RADIATED EMISSION

8.1 PROVISIONS APPLICABLE

According to FCC §2.1053 §22.359 and §90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with each channel separation.

Emission Mask D -for 12.5 kHz Channel Separation:

- (1) On any frequency removed from the center of the authorized bandwidth f_0 to 5.625 kHz removed from f_0 : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_0 of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_0 of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is lesser attenuation.

According to FCC §22.359:

- (a) *Out of band emissions.* The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

8.2 MEASUREMENT PROCEDURE

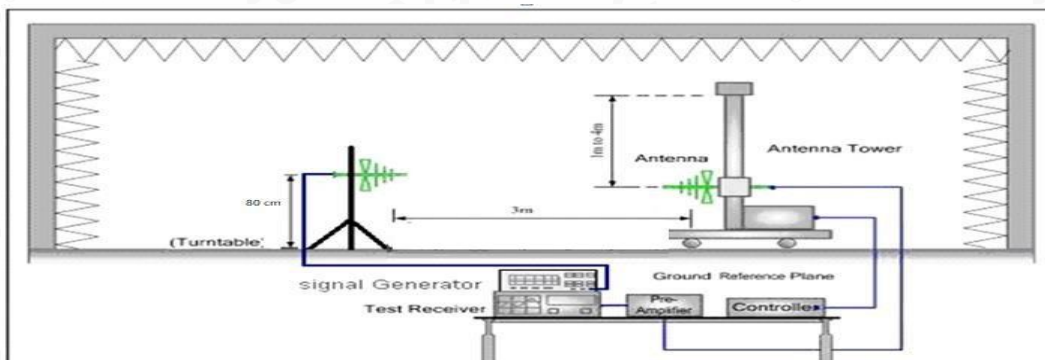
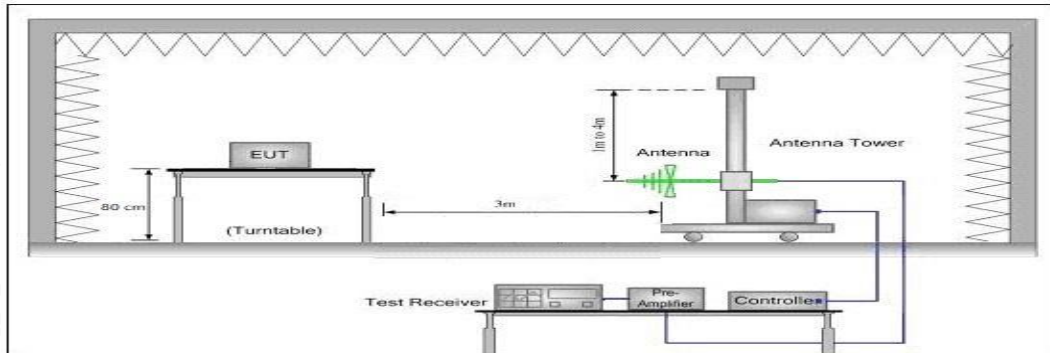
- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

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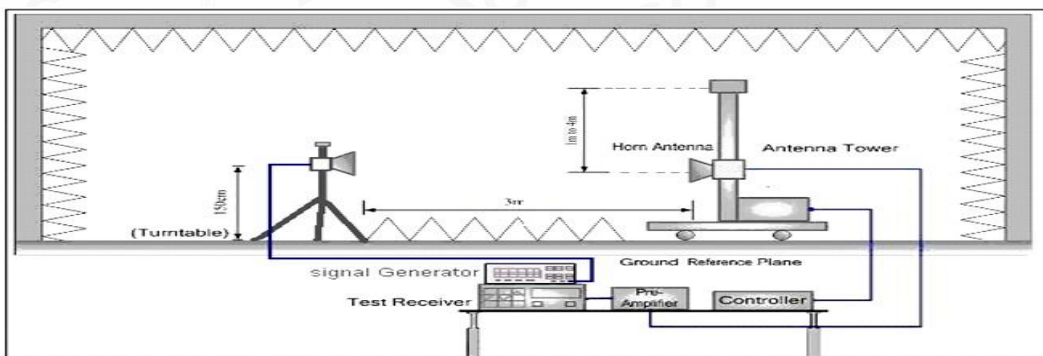
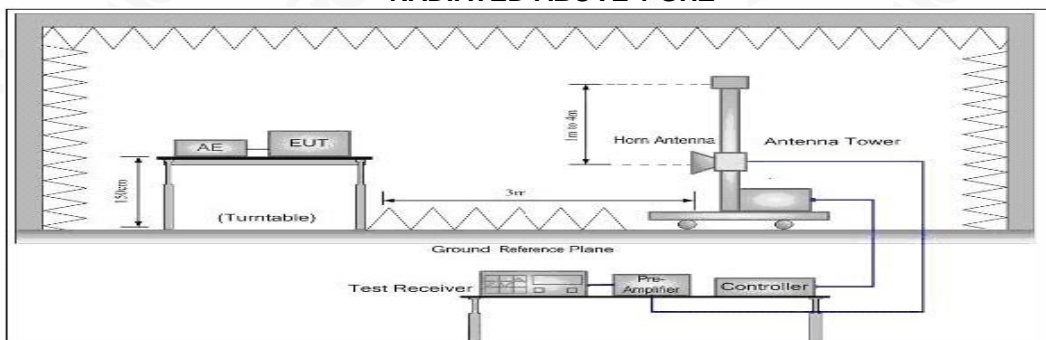


8.3 MEASUREMENT SETUP

RADIATED BELOW 1GHZ



RADIATED ABOVE 1 GHZ



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8.4 MEASUREMENT RESULTS

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10 harmonic.

In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.

The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

EIRP = “Read Value” + Measured substitution value + 2.15.

Test limit calculation:

Preliminary calculation	Final Result
At least 50+10 log (P) =50+10log (7) =58.45 (dB)	Limit=P- Preliminary calculation=38.45-58.45=-20 dBm
At least 50+10 log (P) =50+10log (6) =58.45 (dB)	Limit=P- Preliminary calculation=38.45-58.45=-20 dBm
At least 50+10 log (P) =50+10log (0.2) =43.01 (dB)	Limit=P- Preliminary calculation=23.01-43.01=-20 dBm
At least 43+10 log (P) =43+10log (7) =51.45 (dB)	Limit=P- Preliminary calculation=38.45-51.45=-13 dBm
At least 43+10 log (P) =43+10log (6) =50.78 (dB)	Limit=P- Preliminary calculation=37.78-50.78=-13 dBm
At least 43+10 log (P) =43+10log (0.2) =36.01 (dB)	Limit=P- Preliminary calculation=23.01-36.01=-13 dBm

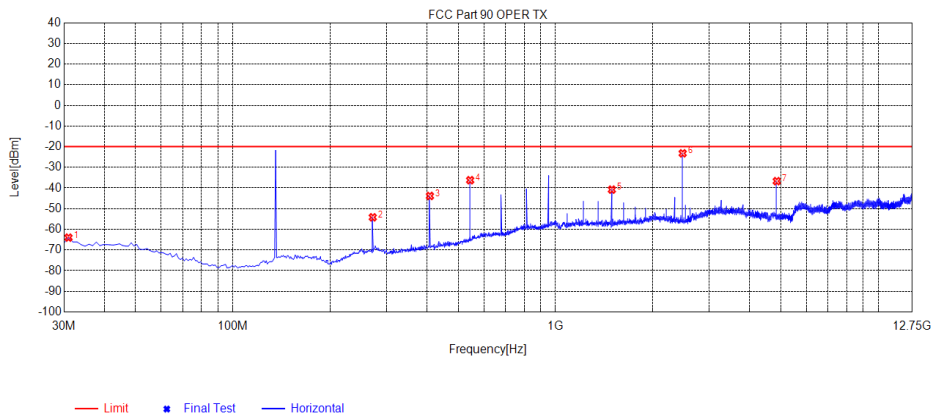
Note: In this case, Part 22 (-13 dBm) is less than the limit of Part 90 (-20 dBm), so we do not need to test Part 22, which meets the spurious limits of PART 90+22.

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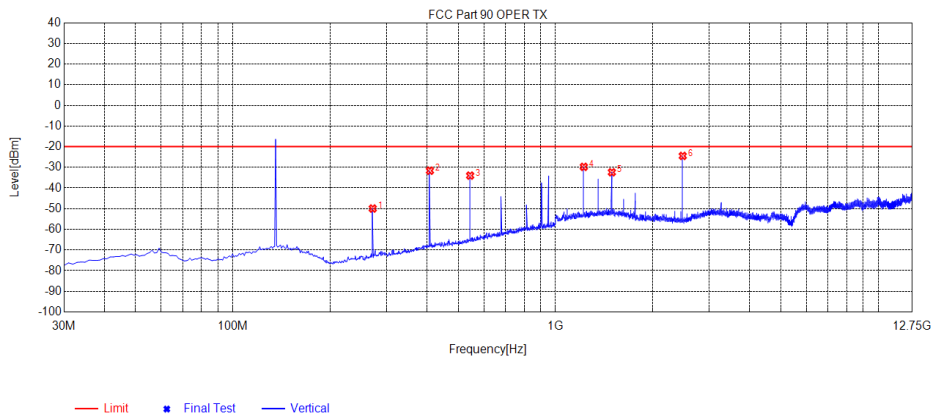


Test Mode: TX:136.025MHz-FM Polarity: Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	30.9700	-98.59	-64.01	-20.00	44.01	34.58	176	Horizontal
2	271.5300	-87.25	-54.19	-20.00	34.19	33.06	288	Horizontal
3	408.3000	-78.42	-43.84	-20.00	23.84	34.58	82	Horizontal
4	544.1000	-74.09	-36.21	-20.00	16.21	37.88	251	Horizontal
5	1495.8996	-37.56	-40.78	-20.00	20.78	-3.22	260	Horizontal
6	2479.4729	-21.85	-23.21	-20.00	3.21	-1.36	352	Horizontal

Test Mode: TX:136.025MHz-FM Polarity: Vertical

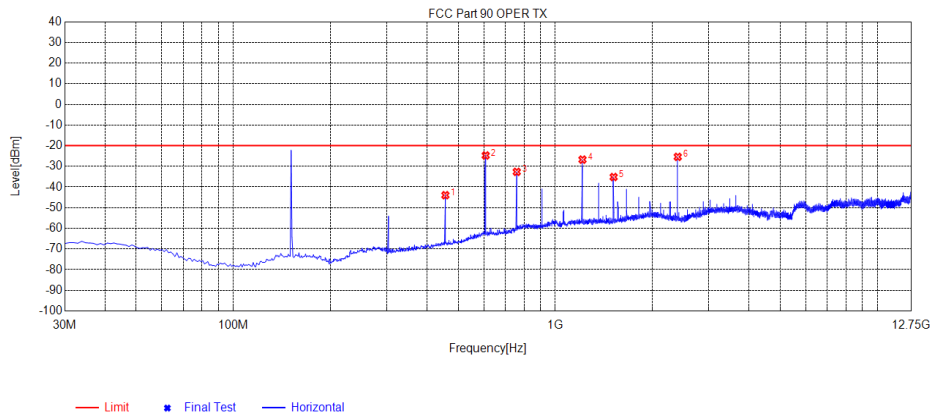


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-80.11	-49.93	-20.00	29.93	30.18	359	Vertical
2	408.3000	-66.72	-31.61	-20.00	11.61	35.11	351	Vertical
3	544.1000	-71.40	-33.99	-20.00	13.99	37.41	325	Vertical
4	1224.4474	-30.08	-29.75	-20.00	9.75	0.33	351	Vertical
5	1495.8996	-34.51	-32.38	-20.00	12.38	2.13	334	Vertical
6	2480.6481	-23.43	-24.46	-20.00	4.46	-1.03	48	Vertical

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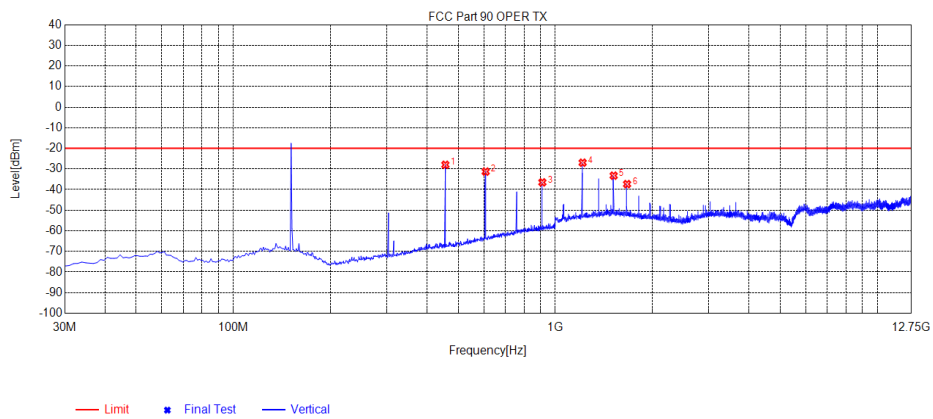


Test Mode:	TX:151.850MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	455.8300	-79.44	-43.95	-20.00	23.95	35.49	63	Horizontal
2	608.1200	-64.60	-24.73	-20.00	4.73	39.87	268	Horizontal
3	759.4400	-74.74	-32.66	-20.00	12.66	42.08	268	Horizontal
4	1215.0465	-22.94	-26.75	-20.00	6.75	-3.81	0	Horizontal
5	1518.2268	-32.09	-35.16	-20.00	15.16	-3.07	359	Horizontal
6	2400.7401	-24.35	-25.40	-20.00	5.40	-1.05	8	Horizontal

Test Mode:	TX:151.850MHz-FM	Polarity:	Vertical
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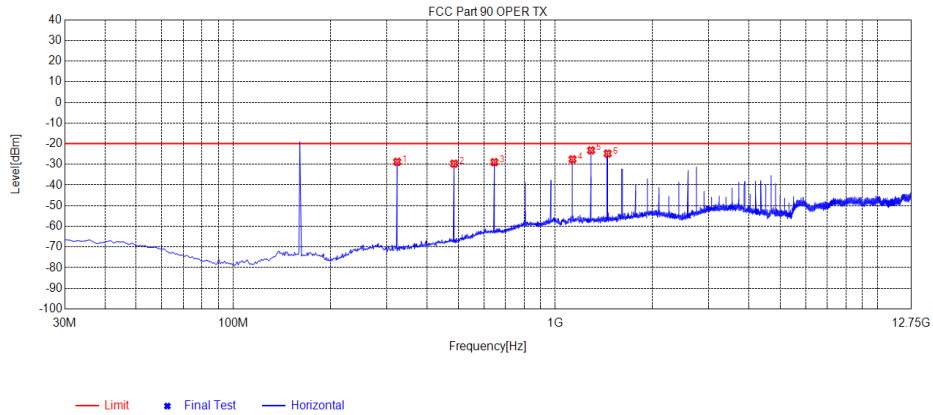


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	455.8300	-63.74	-27.97	-20.00	7.97	35.77	9	Vertical
2	608.1200	-70.14	-31.29	-20.00	11.29	38.85	334	Vertical
3	911.7300	-79.94	-36.51	-20.00	16.51	43.43	111	Vertical
4	1216.2216	-27.24	-26.96	-20.00	6.96	0.28	1	Vertical
5	1518.2268	-35.34	-33.24	-20.00	13.24	2.10	1	Vertical
6	1670.9921	-38.89	-37.33	-20.00	17.33	1.56	120	Vertical

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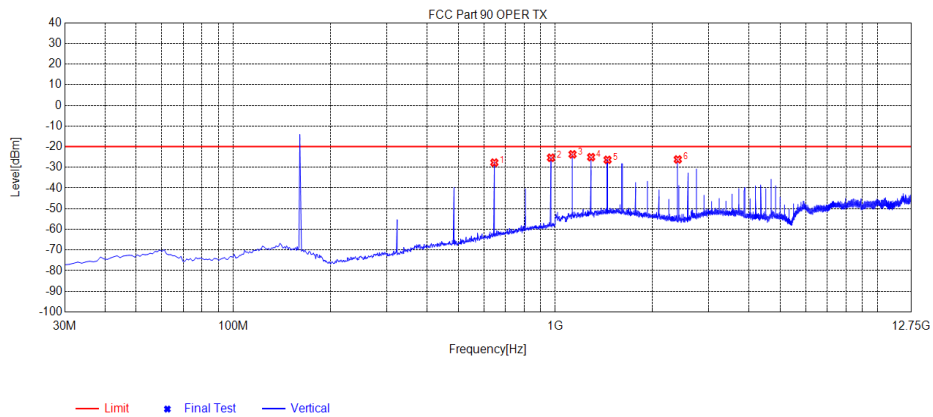


Test Mode: TX:161.610MHz-FM Polarity: Horizontal



NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-61.30	-28.78	-20.00	8.78	32.52	212	Horizontal
2	484.9300	-65.71	-29.67	-20.00	9.67	36.04	250	Horizontal
3	646.9200	-68.91	-28.93	-20.00	8.93	39.98	296	Horizontal
4	1131.6132	-23.58	-27.56	-20.00	7.56	-3.98	277	Horizontal
5	1292.6043	-19.58	-23.23	-20.00	3.23	-3.65	1	Horizontal
6	1454.7705	-21.48	-24.78	-20.00	4.78	-3.30	333	Horizontal

Test Mode: TX:161.610MHz-FM Polarity: Vertical

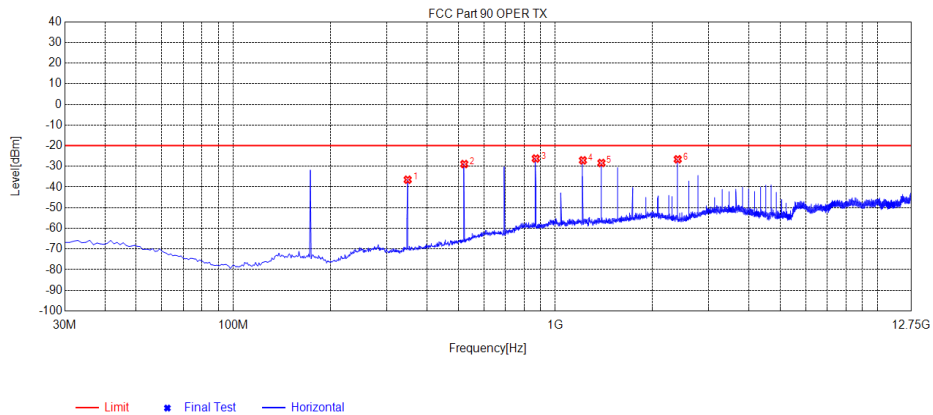


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	646.9200	-67.23	-27.69	-20.00	7.69	39.54	217	Vertical
2	969.9300	-69.37	-25.35	-20.00	5.35	44.02	28	Vertical
3	1131.6132	-23.42	-23.71	-20.00	3.71	-0.29	291	Vertical
4	1292.6043	-25.84	-25.06	-20.00	5.06	0.78	9	Vertical
5	1453.5954	-28.20	-26.35	-20.00	6.35	1.85	348	Vertical
6	2401.9152	-25.37	-26.17	-20.00	6.17	-0.80	329	Vertical

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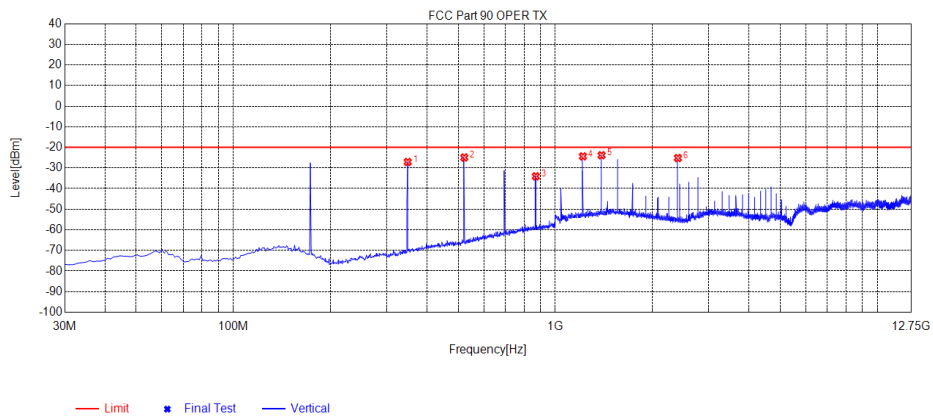


Test Mode:	TX:173.975MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-69.60	-36.46	-20.00	16.46	33.14	120	Horizontal
2	521.7900	-65.99	-28.89	-20.00	8.89	37.10	102	Horizontal
3	870.0200	-69.30	-26.22	-20.00	6.22	43.08	73	Horizontal
4	1218.5719	-23.30	-27.10	-20.00	7.10	-3.80	359	Horizontal
5	1391.3141	-24.92	-28.36	-20.00	8.36	-3.44	350	Horizontal
6	2400.7401	-25.53	-26.58	-20.00	6.58	-1.05	350	Horizontal

Test Mode:	TX:173.975MHz-FM	Polarity:	Vertical
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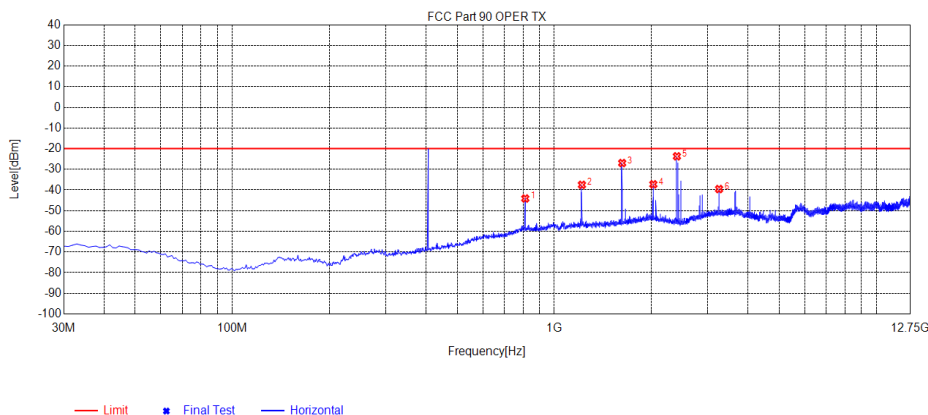


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-59.99	-27.10	-20.00	7.10	32.89	83	Vertical
2	521.7900	-61.82	-24.92	-20.00	4.92	36.90	1	Vertical
3	870.0200	-77.09	-34.06	-20.00	14.06	43.03	110	Vertical
4	1218.5719	-24.67	-24.38	-20.00	4.38	0.29	1	Vertical
5	1392.4892	-25.29	-23.84	-20.00	3.84	1.45	10	Vertical
6	2403.0903	-24.39	-25.19	-20.00	5.19	-0.80	218	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

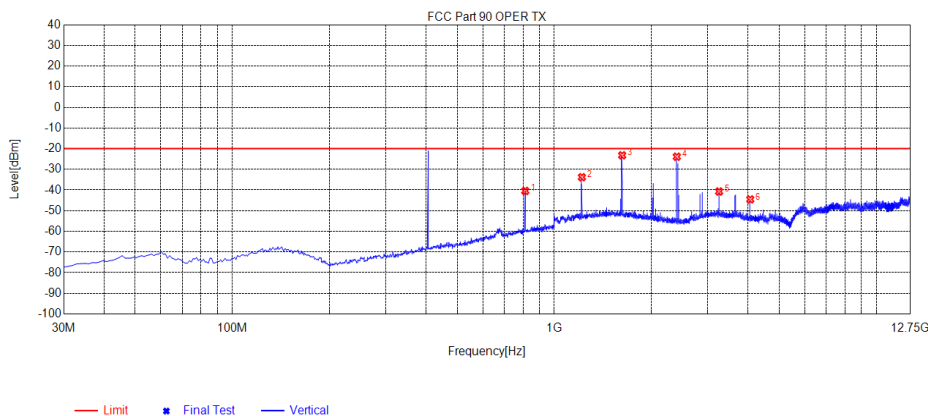


Test Mode:	TX:406.125MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	812.7900	-87.47	-44.11	-20.00	24.11	43.36	304	Horizontal
2	1218.5719	-33.71	-37.51	-20.00	17.51	-3.80	101	Horizontal
3	1625.1625	-24.68	-26.95	-20.00	6.95	-2.27	82	Horizontal
4	2030.5781	-37.66	-37.25	-20.00	17.25	0.41	138	Horizontal
5	2403.0903	-22.64	-23.70	-20.00	3.70	-1.06	175	Horizontal
6	3249.1749	-43.26	-39.53	-20.00	19.53	3.73	314	Horizontal

Test Mode:	TX:173.975MHz-FM	Polarity:	Vertical
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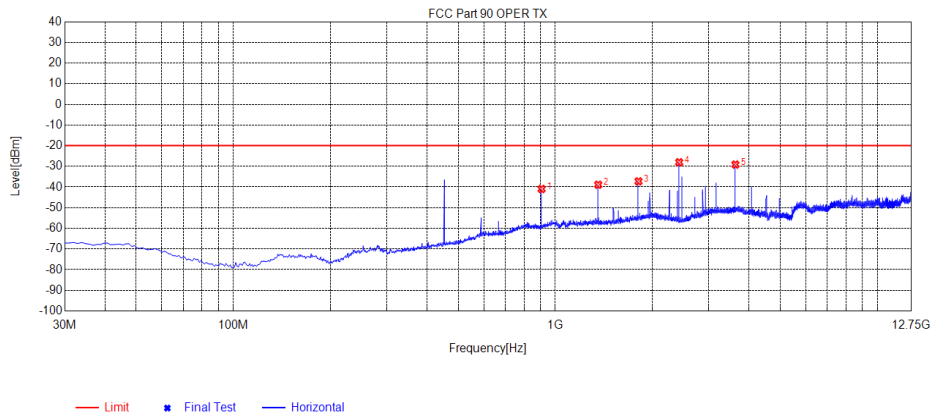


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	812.7900	-82.93	-40.44	-20.00	20.44	42.49	149	Vertical
2	1218.5719	-34.09	-33.80	-20.00	13.80	0.29	112	Vertical
3	1625.1625	-24.92	-23.20	-20.00	3.20	1.72	94	Vertical
4	2401.9152	-23.08	-23.88	-20.00	3.88	-0.80	94	Vertical
5	3249.1749	-43.87	-40.73	-20.00	20.73	3.14	316	Vertical
6	4061.1811	-47.80	-44.54	-20.00	24.54	3.26	344	Vertical

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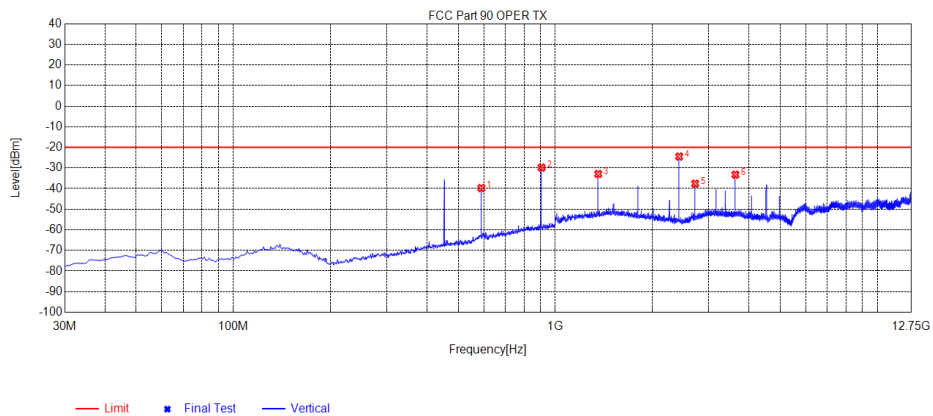


Test Mode:	TX:453.2125MHz-FM	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.8800	-84.04	-40.95	-20.00	20.95	43.09	122	Horizontal
2	1359.5860	-35.39	-38.89	-20.00	18.89	-3.50	130	Horizontal
3	1813.1813	-36.40	-37.27	-20.00	17.27	-0.87	326	Horizontal
4	2425.4175	-26.88	-28.03	-20.00	8.03	-1.15	9	Horizontal
5	3626.3876	-33.45	-29.13	-20.00	9.13	4.32	130	Horizontal
6	906.8800	-84.04	-40.95	-20.00	20.95	43.09	122	Horizontal

Test Mode:	TX:453.2125MHz-FM	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	589.6900	-78.23	-39.76	-20.00	19.76	38.47	359	Vertical
2	906.8800	-73.19	-29.81	-20.00	9.81	43.38	238	Vertical
3	1359.5860	-34.16	-32.93	-20.00	12.93	1.23	162	Vertical
4	2425.4175	-23.59	-24.46	-20.00	4.46	-0.87	275	Vertical
5	2719.1969	-38.40	-37.60	-20.00	17.60	0.80	153	Vertical
6	3626.3876	-36.37	-33.25	-20.00	13.25	3.12	190	Vertical

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